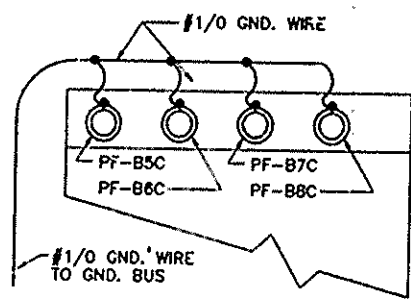


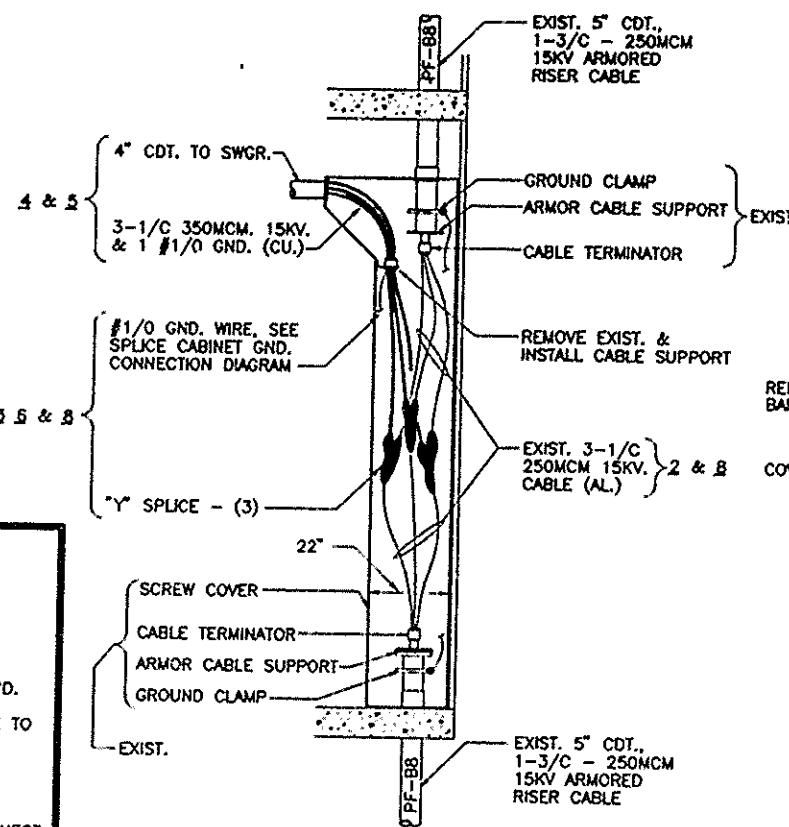
SPICE CABINET GROUND CONNECTION DIAGRAM  
TYPICAL FOR STEP 3 & 5  
NOT TO SCALE



SECTION A-A

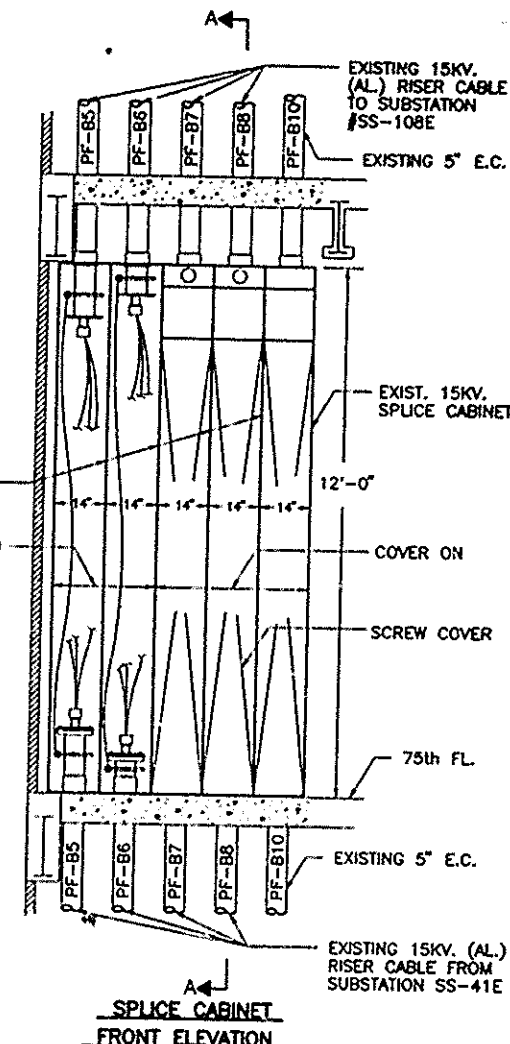
**STEPS REQUIRED FOR 15KV FEEDER INSTALLATION**

1. - DE-ENERGIZE FEEDER.
2. - REMOVE EXIST. ARCPROOFING.
3. - BREAK EXIST. SPLICES (3) AND DISCONNECT GND. WIRE AS REQ'D.
4. - REMOVE EXIST. CONDUIT & WIRE TO 1500KVA TRANSF. SWITCH.
5. - INSTALL CONDUIT & WIRE TO 2000KVA TRANSF. BKR. HV-B.
6. - RE-MAKE SPLICES (3) AND CONNECT GND WIRING AS SHOWN. (REMOVE BARRIER IF REQ'D.)
7. - MAKE CONNECTIONS AT 2000KVA TRANSF. BKR. HV-B.
8. - INSTALL ARCPROOFING.
9. - TEST FEEDER AND RE-ENERGIZE.



SECTION A-A  
NOTE: PF-B5, B6, & B7 ARE TYPICAL

DETAIL "A"  
15KV. SPICE CABINET  
SCALE IN FEET  
0 1 2 3 4 5



SPICE CABINET  
FRONT ELEVATION

**NOTES**

- 1.- FOR LEGEND SEE DWG. E-1, FOR GENERAL NOTES, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE SEE DWG. E-2.
- 2.- FOR SEQUENCE OF INSTALLATION SEE DWG. #E-2.
- 3.- FOR WORK PERFORMED ON SUBSTATION SS-75E IN STAGE II & III SEE THE FOLLOWING DRAWINGS:
  - \* STAGE II ONLY  
DWG #E-5 - TYPICAL SUBSTATION  
DWG #E-90 - LOAD TRANSFER
  - \* STAGE III ONLY  
DWG #E-6 - TYPICAL SUBSTATION  
DWG #E-91 - LOAD TRANSFER
  - \* COMBINED STAGE II & III  
DWG #E-83 (THIS DWG) SWGR. EQUIP.  
DWG #E-84 - 480V ONE LINE DIAGRAM  
DWG #E-85 - CDT. & CABLE SCHED.  
DWG #E-86 - SWGR. EQUIP. PLAN  
DWG #E-87 - 75th FL CTRL. CDT  
DWG #E-88 - 75th FL CDT LAYOUT  
DWG #E-89 - 76th FL CDT LAYOUT

**THE PORT AUTHORITY  
OF NY & NJ**

*Peter K. Swerney*  
ENGINEERING PROGRAM MANAGER  
WORLD TRADE CENTER  
*John M. Rosen*  
CHIEF ELECTRICAL ENGINEER

Engineering Department  
Design Divisions  
**The World Trade  
Center  
Electrical/HVAC  
Upgrade Program**

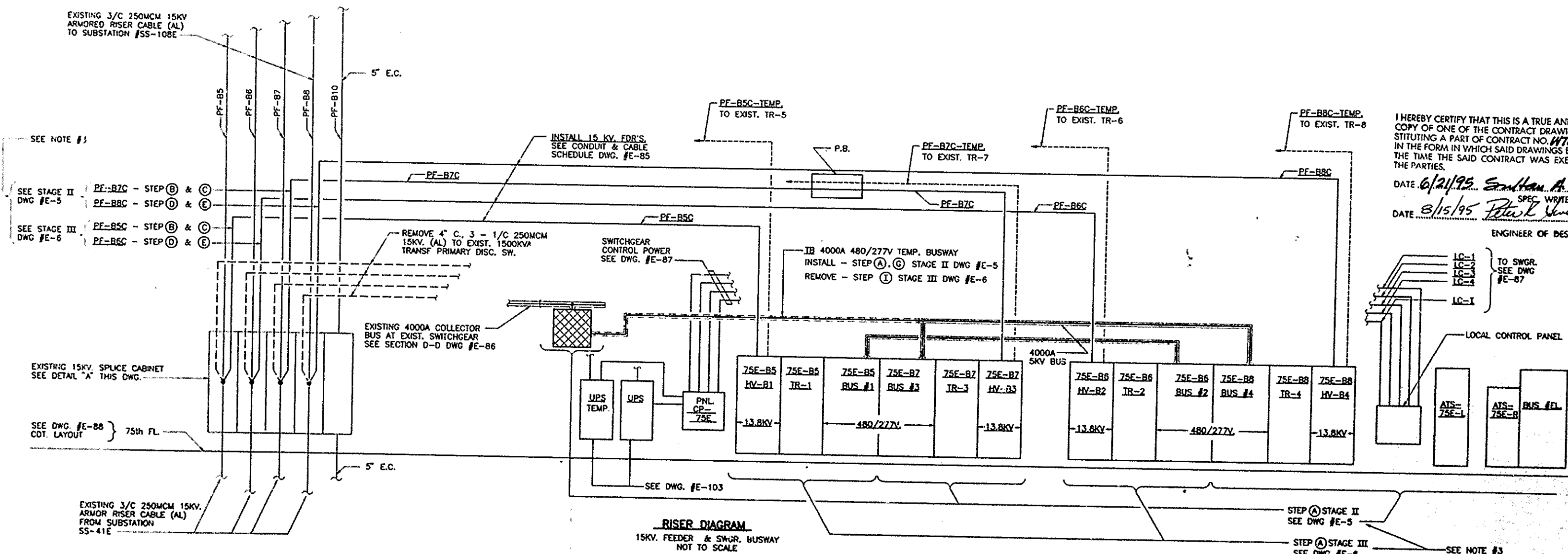
Title  
**TOWER ONE AND TWO  
LOW VOLTAGE  
SUBSTATIONS  
CONSTRUCTION AND  
INSTALLATION**

**ELECTRICAL  
SUBSTATION SS-75E  
STAGE II AND III  
SWITCHGEAR EQUIPMENT  
RISER DIAGRAM**

No. Date Revision Approved  
This drawing subject to conditions in contract.  
All inventions, ideas, designs and methods  
herein are reserved to Port Authority and  
may not be used without its written consent.

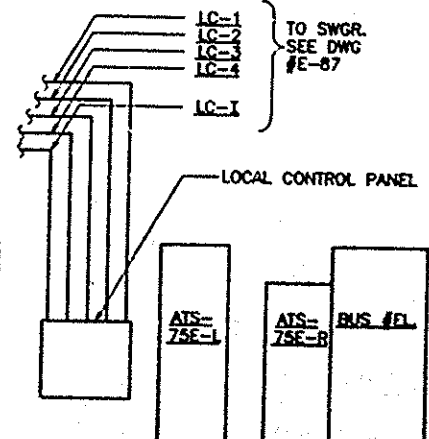
LEAHY/  
FISCHER  
Designed by  
Date 8/24-95  
Contract Number  
WTC 802.071

LEAHY  
Drawn by  
Scale AS NOTED  
Drawing Number  
E-83



RISER DIAGRAM  
15KV. FEEDER & SWGR. BUSWAY  
NOT TO SCALE

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT  
COPY OF ONE OF THE CONTRACT DRAWINGS CON-  
STITUTING A PART OF CONTRACT NO. WTC-802.071  
IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT  
THE TIME THE SAID CONTRACT WAS EXECUTED BY  
THE PARTIES.  
DATE 6/21/95 *Samuel A. Adams*  
DATE 8/15/95 *Peter K. Swerney*  
SPEC. WRITER  
ENGINEER OF DESIGN



SEE NOTE #3